

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

A 1. (Currently Amended) A system for reducing traffic in a telephone network while providing caller name identification (CNAM) service, comprising:

a signaling transfer point (STP) to receive a CNAM query from a switch on which a called party is homed, wherein the CNAM query contains a calling party telephone number;

~~a local number portability signal control point (LNP SCP) to receive the CNAM query from the STP;~~

a CNAM SCP to receive the CNAM query from the STP and to return CNAM information to the switch;

~~coupled to a CNAM SCP database~~ coupled to the CNAM SCP; and

a duplicate local number portability signal control point (LNP SCP) database accessible to the CNAM SCP, the CNAM SCP database containing that contains a plurality of CNAM records, wherein each CNAM record, comprising comprises:

a telephone number; and

a directory name corresponding to the telephone number, and

~~an wherein the duplicate LNP SCP database is coupled to the CNAM SCP that contains a~~ plurality of global translation title (GTT) records, each GTT record, comprising:

a telephone number; and

a service routing corresponding to a network element that provides the CNAM service.

A 2. (Original) The system recited in claim 1, wherein the STP causes every CNAM query to be routed to the CNAM SCP owned by a first telephone company for processing, and wherein the CNAM information includes the calling party telephone number and a directory name corresponding to the calling party telephone number.

3. (Original) The system recited in claim 1, wherein the CNAM SCP causes the CNAM query to be routed to another telephone company for processing, and wherein the CNAM information includes the calling party telephone number and a directory name corresponding to the calling party telephone number.

4. (Currently Amended) The system recited in claim 1, wherein the CNAM information includes city and state information.

5. (Currently Amended) A method for providing caller name identification (CNAM) service comprising the steps of:

receiving a CNAM query from a switch on which a called party is homed through an STP, wherein the CNAM query contains a calling party telephone number;
creating a duplicate LNP database containing a plurality of LNP routing records;

routing the query directly to a CNAM LNP SCP, which is coupled to the duplicate LNP database and a CNAM database;

accessing the ~~a local~~ LNP database containing ~~a plurality of LNP routing records to obtain~~ obtaining routing information for processing the CNAM query; and

routing the CNAM query in accordance with the obtained routing information for processing to obtain CNAM information in response to the CNAM query.

6. (Original) The method recited in claim 5, wherein the CNAM information comprises the calling party telephone number and a directory name corresponding to the calling party number.

7. (Original) The method recited in claim 5, wherein the CNAM information comprises city and state information on the caller ID display device.

8. (Original) The method recited in claim 5, further comprising the step of determining whether the CNAM query is to be processed by another telephone company, and if not, accessing a CNAM database using the calling party name as an index to obtain a directory name corresponding to the calling party telephone number.

9. (Currently Amended) A system for reducing network traffic in a telephone network providing caller name identification (CNAM) service comprising:

a signaling transfer point (STP) to receive a CNAM query from a switch on which a called party is homed, wherein the CNAM query contains a calling party telephone number;

a CNAM service control point (CNAM SCP) to receive the CNAM query from the STP and return CNAM information to the switch; and

A a CNAM LNP database accessible to the CNAM SCP that contains a plurality of LNP routing records that duplicate an existing LNP database, each LNP routing record, comprising:

a telephone number; and

a service routing corresponding to a network element that provides the CNAM service.

10. (Original) The system recited in claim 9, further comprising:

a CNAM database coupled to the CNAM SCP that contains a plurality of CNAM records, each CNAM record, comprising:

a telephone number; and

a directory name corresponding to the telephone number,

wherein the CNAM information comprises the calling party telephone number and a directory name corresponding to the calling party telephone number.

11. (Original) The system recited in claim 9, wherein the CNAM SCP causes the CNAM query to be routed to another telephone company for processing, and wherein the CNAM

information comprises the calling party telephone number and a directory name corresponding to the calling party telephone number.

A 12. (Currently Amended) The system recited in claim 9, wherein the CNAM information includes city and state information.

13. (Original) The system recited in claim 9, further comprising a CNAM caller ID display device on which the CNAM information is displayed.

14. (Currently Amended) A method for providing caller name identification (CNAM) service comprising the steps of:

receiving a CNAM query from a switch on which a called party is homed, wherein the CNAM query contains a calling party telephone number;

accessing a duplicate CNAM LNP database coupled to a CNAM SCP, containing a plurality of LNP routing records, obtaining ~~to obtain~~ routing information for processing the CNAM query; and

routing the CNAM query in accordance with the obtained routing information.

15. (Original) The method recited in claim 14, further comprising the step of displaying the calling party telephone number and a directory name corresponding to the calling party number on a caller ID display device.

16. (Original) The method recited in claim 14, further comprising the step of displaying city and state information on a caller ID display device.

A 17. (Original) The method recited in claim 14, further comprising the step of determining whether the CNAM query is to be processed by another telephone company, and if not, accessing the CNAM database using the calling party name as an index to obtain a directory name corresponding to the calling party telephone number.

18. (Currently Amended) A system for providing a telephone service, comprising:
a signaling transfer point for receiving a service request requesting the telephone service to be provided from a switch on which a called party is homed;
~~an~~ a service SCP for receiving the service request from the signaling transfer point;
a duplicate LNP database coupled to the service SCP for providing routing information based on identification information in the service request; and
means for routing the service request to a network element that provides the telephone service in accordance with the routing information.

19. (Original) The system recited in claim 18, wherein the SCP sends the query across a telephone network to another telephone company for processing.

20. (Currently Amended) The system recited in claim 18, wherein the telephone service is a calling name identification service, and wherein the service SCP is an CNAM SCP and the ~~database is an~~ duplicate LNP database ~~containing~~ contains a plurality of global translation table records, further comprising a CNAM database containing at least one record having a telephone number and a directory name corresponding to the telephone number.

21. (Original) The system recited in claim 18, further comprising:
a first switch through which a calling party places a telephone call to a called party; and
a second switch on which the called party's telephone number is homed that receives the telephone call and initiates the service request to the signaling transfer point for processing.

22. (Currently Amended) A method for providing CNAM service, comprising the steps of:
receiving a CNAM service request from a switch on which a called party is homed;
obtaining routing information to route the CNAM service request to ~~[[the]]~~ a network element responsible for providing the CNAM service from ~~an~~ a duplicate LNP database coupled to a CNAM SCP;
routing the CNAM service request to the network element to obtain CNAM information;
and
sending the CNAM information to a caller ID display device to be displayed.

23. (Original) The method recited in claim 22, further comprising the steps of:
obtaining an LNP routing record corresponding to a telephone number carried in the
CNAM service request; and
using the telephone number in the CNAM service request as an index into the duplicate
LNP database to obtain the routing information.

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24. (Original) The method recited in claim 22, wherein the CNAM information includes
city and state information.

25. (Original) The method recited in claim 22, wherein the CNAM information includes
calling party directory name and telephone number.

26. (Currently Amended) The method recited in claim 22, wherein said obtaining
step, comprises the steps of:
determining a case of CNAM service to apply;
for CNAM service of a first or second case:
performing a database query of a CNAM database to obtain directory name information
corresponding to a telephone number in the CNAM service request;
for CNAM service of a third case:
routing the CNAM service request to an appropriate network ~~elements~~ element for
processing; and

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A returning city and state information in response to the CNAM service request if the
CNAM service is not of the first, second or third case.
